

Figure 1

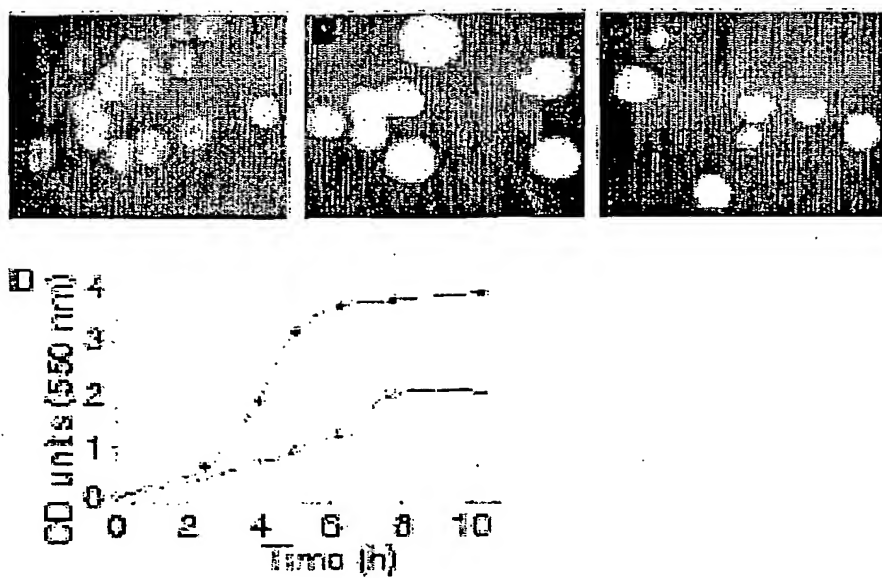


Figure 2

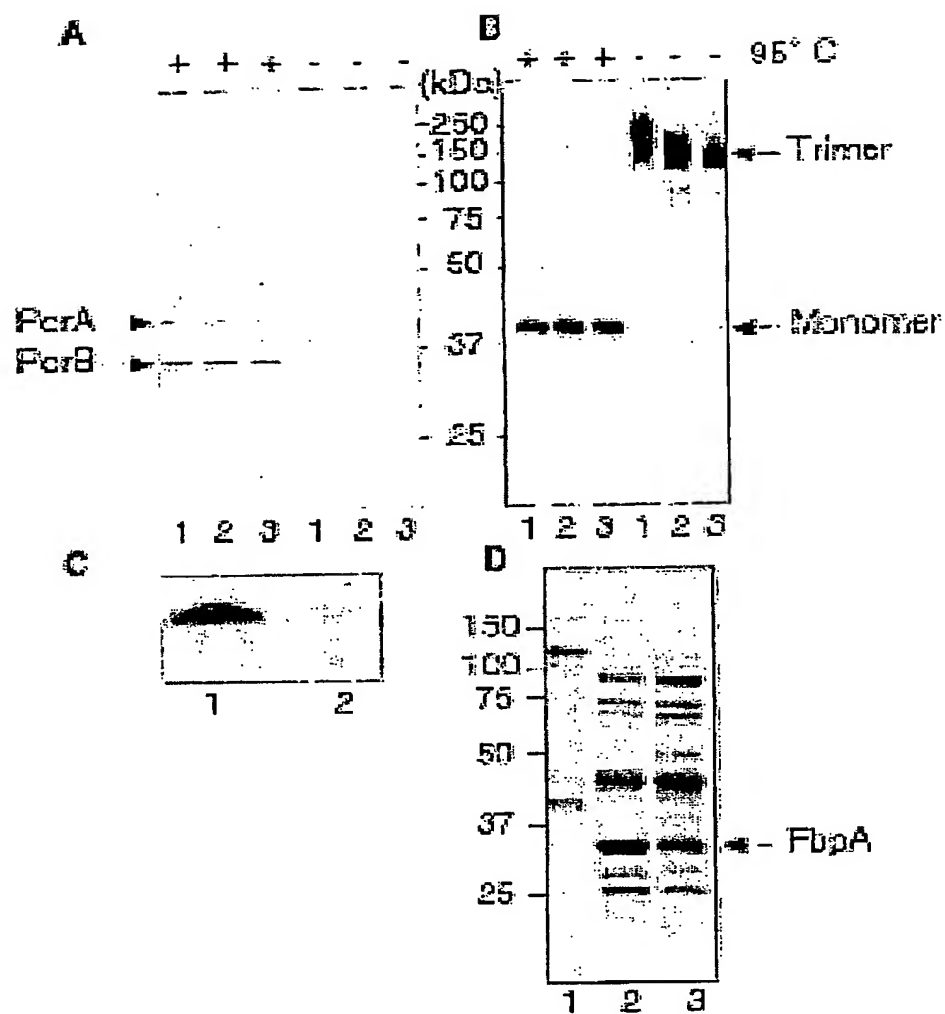


Figure 3

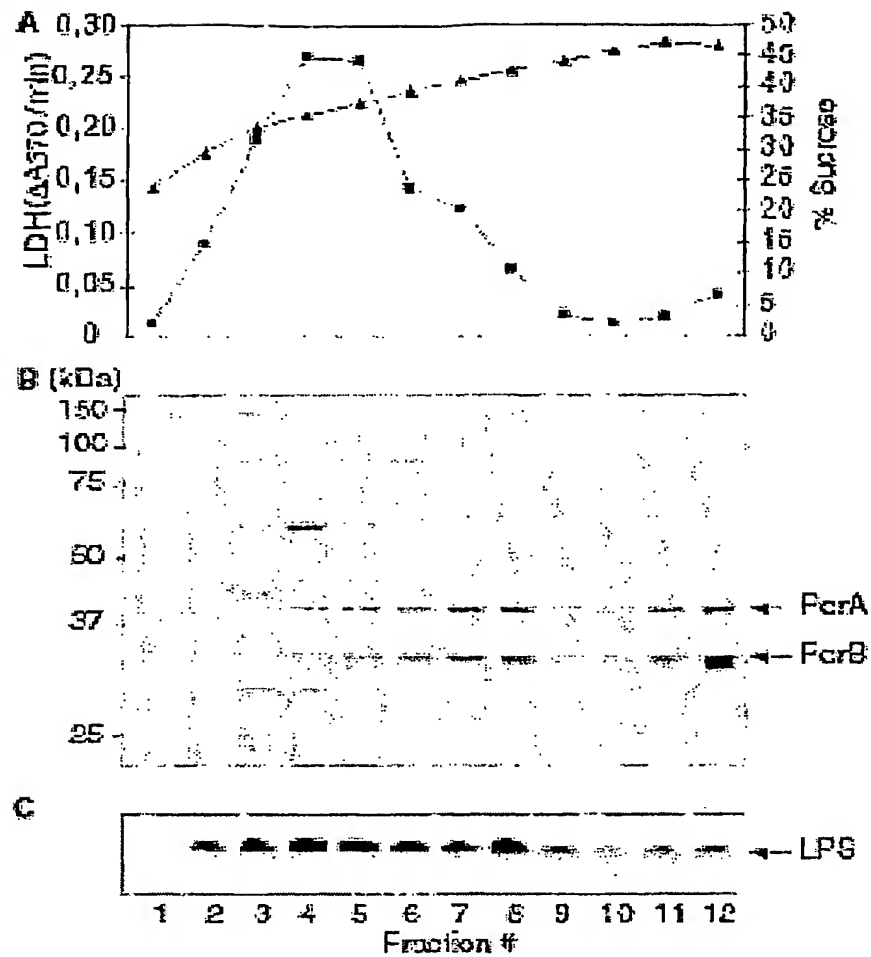


Figure 4

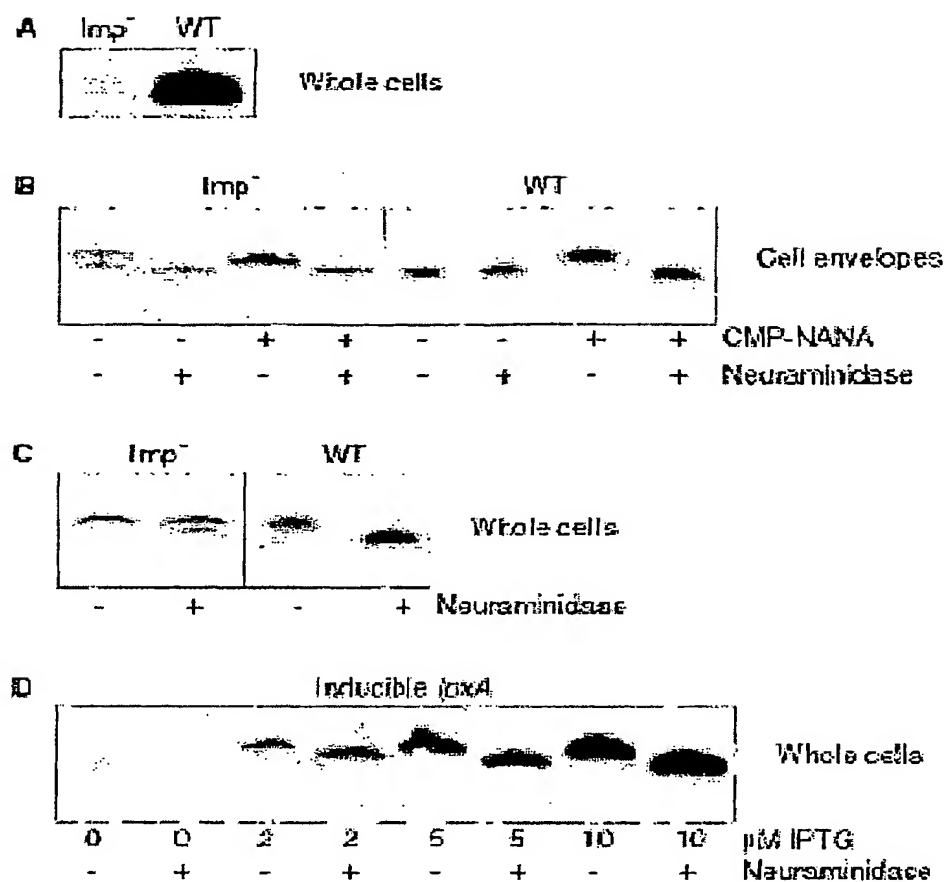


Figure 5

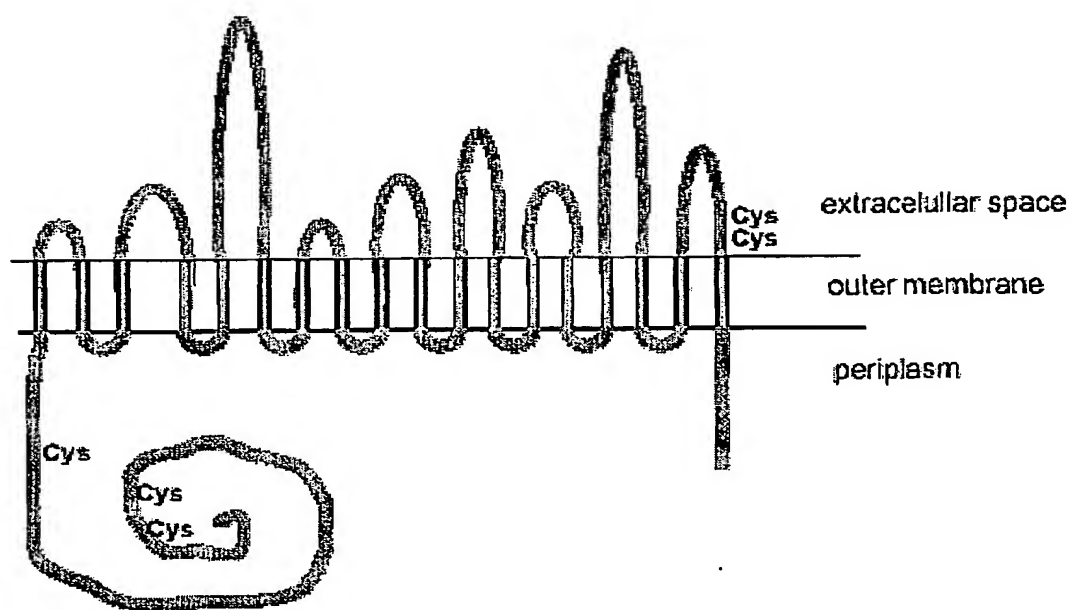


Figure 6

Imp/OstA - SEQ ID No 1

Predicted extracellular loops are indicated in bold

LARLFSLKPLVLALGLCFGTHCAAADAVAAEETDNPTAGESVRSVSEPIQPTSLSLGSTC 60  
LFCSNESGSPERTEAAVQGSGEASIPEDYTRIVADRMEGQSQVQVRAEGNVVVERNRTTL 120  
NTDWADYDQSGDTVTAGDRFALQQDGTLLIRGETLTYNLEQQTGEAHNVRMEIEQGGRRLQ 180  
SVSRTAEMLGEGHYKLTETQFNTCSAGDAGWYVKAASVEADREKIGIVAKHAAFVFGGVP 240  
IFYTPWADFPLDGNRKSGLLVPSLSAGSDGVSLSPYYFNLAPNLDAFAPSVIGERGAV 300  
**FDGQVRYLRPDYAGQSDLTWLP****HDKKSGRNNRYQAKWQHRH****DISDTLQAGVDFNQVSDSG** 360  
**YYRDFYGNKEIAGNVN****LNRRVWLDYGGRAAGGSLNAGLSVLKYQTLANQSGYKDKPYALM** 420  
PRLSVEWRKNTGRAQIGVSAQFTRFSHDSRQDGSRLVVYPDIKWDFSNSWGYVRPKLGLH 480  
**ATYYSLNRFGSQEARRVSRTLPIVNIDSGATFERNTRMFGGEVLQTL****EPRLFYNYIPAKS** 540  
**QNDLPNFDSSSESSFGYGQLFRENLYYGNDRINTANSL****SAAVQSRILDGATGEERFRAGIG** 600  
**QKFYFKDDAVMLDGSVGKKPRNRSDWVAFASGSIGSRFILDSSIHYNQNDKRAENYAVGA** 660  
**SYRPAQGKVLNARYKYGRNEKIY****LKSDGSYFYDKLSQLDLSAQWPLTRNLSAVVRYNYGF** 720  
**EAKKPIEVL****AGAEYKSSCGCWGAGVYAQRYVTGENTYKNAVFFSLQLKDLSSVGRNPADR** 780  
MDVAVPGYITAHSLSAGRNKRP 802

loop 1: 252-271  
loop 2: 295-332  
loop 3: 357-416  
loop 4: 444-455  
loop 5: 482-501  
loop 6: 537-576  
loop 7: 606-624  
loop 8: 648-697  
loop 9: 721-740

Figure 7

### Figure 8



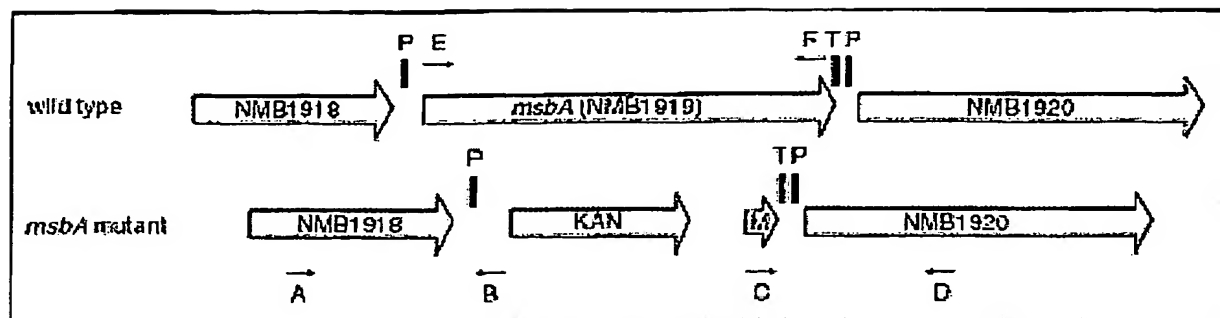


Figure 9

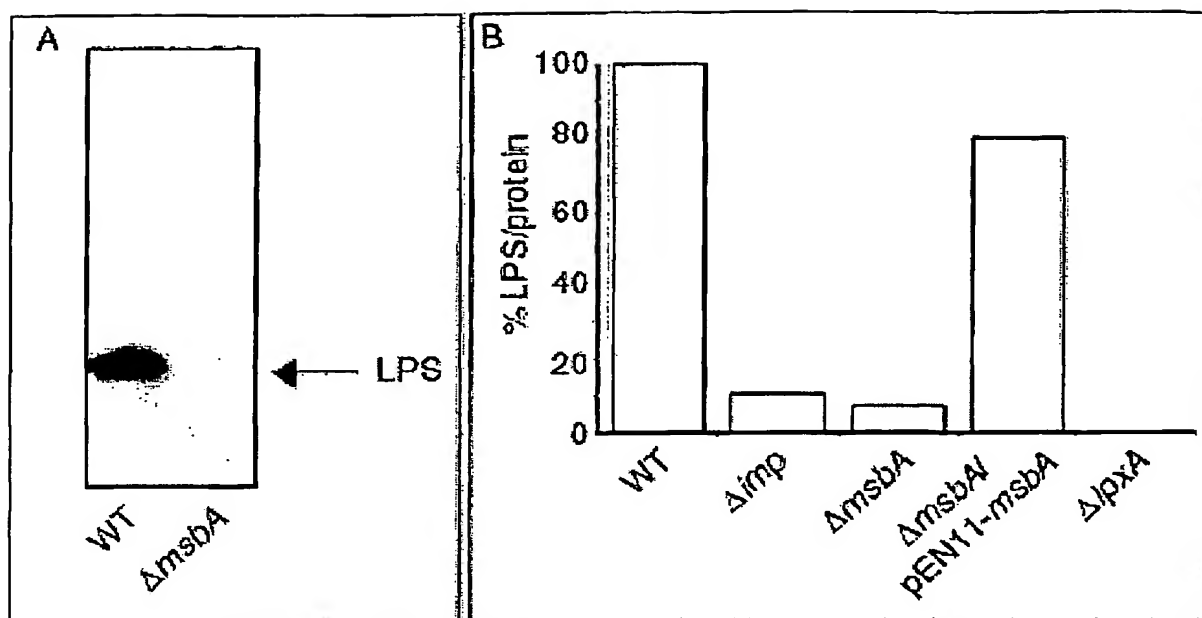


Figure 10

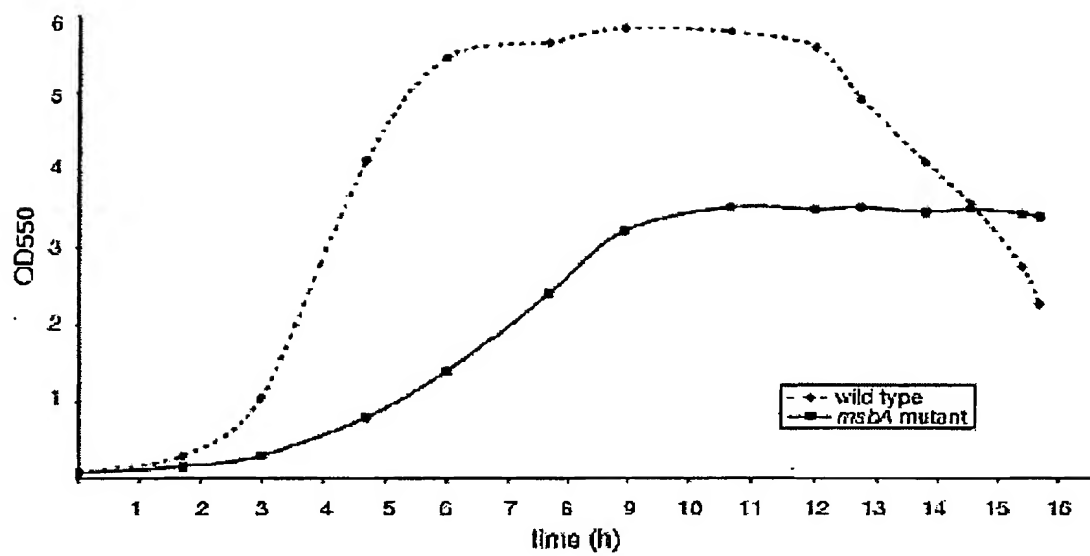


Figure 11

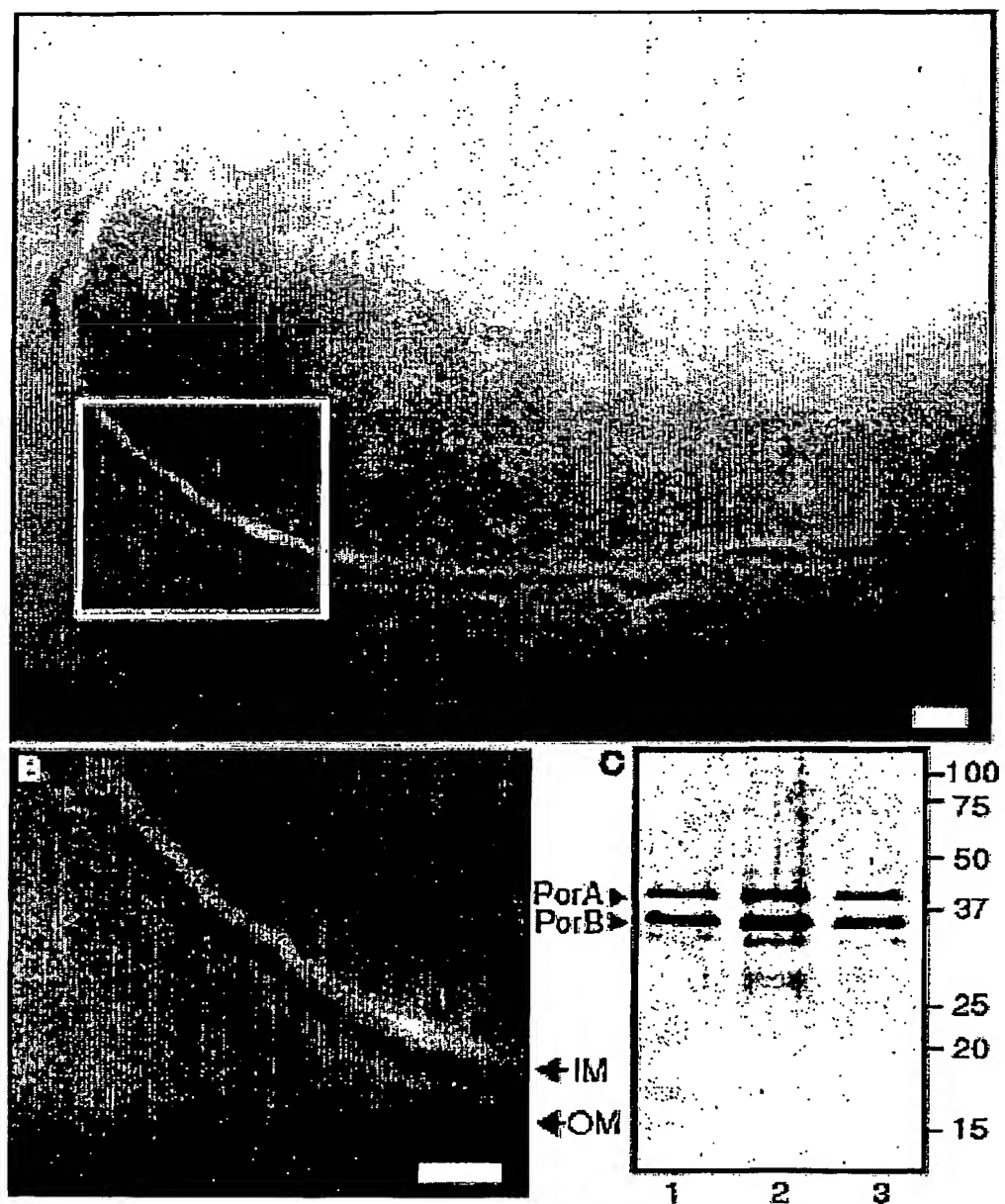


Figure 12

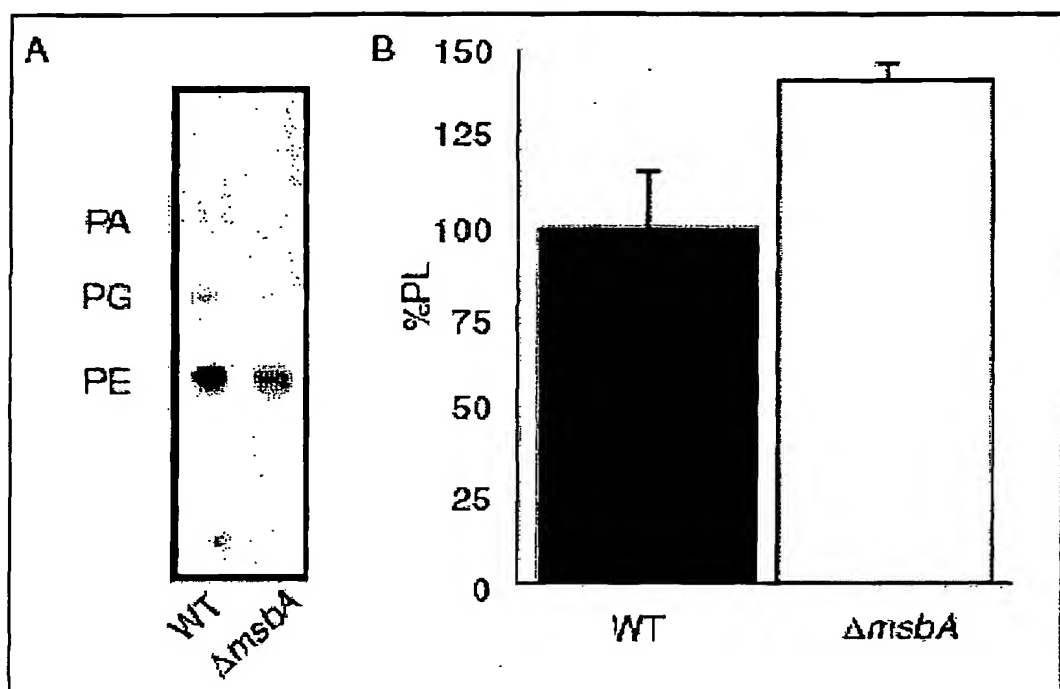


Figure 13

A

MIEKLTFGLFKKEDARSFMRMLAYVRPYKIRIVAALIAIFGVAATESYLAAFIAPLINHG  
 FSAPAAPPELSAAAGIISTLQNWREQFTYMWVG TENKIWTVPLFLIILVVIRGICRFTST  
 YLMTWVSVMTISKIRKDMFAKMLTLSSRYHQETPSGTVLMNMLNLTEQSVSNASDIFTVL  
 TRDTMIVTGLTIVLLYLWNQSLIVVLMFPLLSLLSRYRDR LKHVISDSQKSIGTMNNV  
 IAETHQGHRVVKLFNGQAQAANRFDVNR TIVRLSKKITQATAAHS PFSELIASIALAVV  
 IFIALWQSQNGYTTIGEFMAFIVAMLQMYAPIKSLANISIPMQTMFLAADGVCAFLDTPP  
 EQDKGTLAPQ RVEGRISFRNVDVEYRSDGIKALDNFNLDIRQGERVALVGRSGSGKSTVV  
 NLLPRFVEPSAGNICIDGIDIADIKLDC LRAQFALVSQDVFLFDDTLFENVRYSRPDAGE  
 AEVLFALQTANLQSLIDSSPLGLHQPIGSNGSNLSGGQRQRVAIARAILKDAPILLLDEA  
 TSALDNESERLVQQALERLMENRTGII VAHRLTTIEGADRIIVMDDGKIEQGTHEQLMS  
 QNGYYTMLRNISNKDAAVRTA

B

MLAWRPGRPDGCQAAGGRRYNPGHDCIKASVSLNSAARNAPAGSQPVKAELWKRVYSRVGSYWKGLVLA  
 VLLMAGAAATQ  
 PTLAVIMKPLLDGFGS GAKPHYVWFLPLAVVGLILLRGICNFFSDYLLAWVANNVLRGIRGEMFERLLG  
 LPDADFKR GDT  
 GRLLNRFTIDAGNVTGYATDVITVLVRETLVVIALIGVLLYMSWALTLIILVMLPVSVGIARAFTRRLR  
 RINRETVNMNA  
 ELTRVVSEGIDGQRVIKLF DGYDAERRRFDVNSRLRRFAMRSATADAAL TPLTQVCISVAVGAVIAVA  
 LSQANS GALT  
 GSFASFMAALAQIFDPIKRLTNLAGKMQKMLVAAESVFTLV DQTPEADAGTRALPEPVRGKVEFRAVSH  
 RFPDADRDTVS  
 AVSFLVEPGQTVALVGRSGSGKTTLVNMLPRFVLPDGGDILFDDVPIQDLTLRS LRSHLSLVSQDVVLF  
 DDTIAANVGYG  
 AGGTVD DARVRDALAAANLLEFVDGLPLGIHTPVGQNAARLSGGQRQRLAIARALIKNAPVLILDEATS  
 ALDNESERQVQ  
 ASLERLMRGRTTLVIAHRLSTVQNADRIIVLDAGKIVEHGPHSELLAANGLYASLYNMQFRED

Figure 14



atgctggcgtggcgccgggtcggccggacggttgctcaggcgccgggtggccgacggtacaatcccggg  
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Figure 15 B